



#10

1631

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/767,764A

DATE: 02/11/2002

TIME: 14:30:30

Input Set : A:\Seq Listing.ST25.txt

Output Set: N:\CRF3\02112002\I767764A.raw

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FEB 22 2002

TECH CENTER 1600/2900

3 <110> APPLICANT: Church, George M.  
 5 <120> TITLE OF INVENTION: METHOD OF MAKING PROTEIN ARRAYS  
 7 <130> FILE REFERENCE: 10498-00009  
 9 <140> CURRENT APPLICATION NUMBER: 09/767,764A  
 10 <141> CURRENT FILING DATE: 2001-01-23  
 12 <150> PRIOR APPLICATION NUMBER: 09/522,732  
 13 <151> PRIOR FILING DATE: 2000-03-10  
 15 <160> NUMBER OF SEQ ID NOS: 37  
 17 <170> SOFTWARE: PatentIn version 3.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 17  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Bacteriophage T7  
 24 <400> SEQUENCE: 1  
 25 taatacgact cactata  
 28 <210> SEQ ID NO: 2  
 29 <211> LENGTH: 24  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Artificial sequence  
 33 <220> FEATURE:  
 34 <223> OTHER INFORMATION: Amplification primer  
 36 <400> SEQUENCE: 2  
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 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 23  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial sequence  
 45 <220> FEATURE:  
 46 <223> OTHER INFORMATION: Amplification primer  
 48 <400> SEQUENCE: 3  
 49 ctgccccggg ttctcattc tct  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 24  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: Artificial sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Amplification primer  
 60 <220> FEATURE:  
 61 <221> NAME/KEY: misc\_feature  
 62 <222> LOCATION: (1)..(1)  
 63 <223> OTHER INFORMATION: 5' end modified with acrydite  
 66 <400> SEQUENCE: 4  
 67 ccactacgcc tccgctttcc tctc

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24

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70 <210> SEQ ID NO: 5
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72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial sequence
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76 <223> OTHER INFORMATION: Amplification primer
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79 gggcggaagc ttgaaggagg tatt                24
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 23
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Amplification primer
90 <400> SEQUENCE: 6
91 gcccggtctc gacgtctgt tta                23
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 24
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Amplification primer
102 <220> FEATURE:
103 <221> NAME/KEY: misc_feature
104 <222> LOCATION: (1)..(1)
105 <223> OTHER INFORMATION: 5' end modified with acrydite
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109 gggcggaagc ttgaaggagg tatt                24
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 47
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Amplification primer
120 <400> SEQUENCE: 8
121 gggcggaagc ttgaaggagg tattttaagga gaaaataccg catcagg    47
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 44
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Amplification primer
132 <400> SEQUENCE: 9
133 gcccggtctc gacgtctgt ttacaccgat cgcccttccc aaca        44
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 47
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial sequence
141 <220> FEATURE:

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142 <223> OTHER INFORMATION: Amplification primer
144 <400> SEQUENCE: 10
145 gcccggtctc gagcgtctgt ttaaattcac tggccgtcgt tttaaa 47
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 45
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Amplification primer
156 <400> SEQUENCE: 11
157 gcccggtctc gagcgtctgt ttaccaatac gcaaaccgcc tctcc 45
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 48
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Amplification primer
168 <400> SEQUENCE: 12
169 ccactacgcc tccgctttcc tctcgggcgg aagcttgaag gaggtatt 48
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 46
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Amplification primer
180 <400> SEQUENCE: 13
181 ctgccccggg ttcctcattc tctgcccgt ctcgagcgtc tgttta 46
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 10
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Oligonucleotide for array templating
192 <400> SEQUENCE: 14
193 tgcattgctat 10
196 <210> SEQ ID NO: 15
197 <211> LENGTH: 25
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Oligonucleotide for array templating
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208 <210> SEQ ID NO: 16
209 <211> LENGTH: 32
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Primer for in-situ amplification

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216 <220> FEATURE:  
 217 <221> NAME/KEY: misc\_feature  
 218 <222> LOCATION: (27)..(32)  
 219 <223> OTHER INFORMATION: n can be g, a, t, or c  
 222 <400> SEQUENCE: 16  
 WFS 223 gcagcagtagc gactagcata tccgacnnnn nn 32  
 226 <210> SEQ ID NO: 17  
 227 <211> LENGTH: 32  
 228 <212> TYPE: DNA  
 229 <213> ORGANISM: Artificial sequence  
 231 <220> FEATURE:  
 232 <223> OTHER INFORMATION: Primer for in-situ hybridization  
 234 <220> FEATURE:  
 235 <221> NAME/KEY: misc\_feature  
 236 <222> LOCATION: (27)..(32)  
 237 <223> OTHER INFORMATION: n can be g, a, t, or c  
 OK 240 <400> SEQUENCE: 17 32  
 241 cgatagcagt agcatgcagg tccgacnnnn nn  
 244 <210> SEQ ID NO: 18  
 245 <211> LENGTH: 66  
 246 <212> TYPE: DNA  
 247 <213> ORGANISM: Artificial sequence  
 249 <220> FEATURE:  
 250 <223> OTHER INFORMATION: Prophetic example of genomic DNA sequence  
 252 <400> SEQUENCE: 18  
 253 tcggctcatc tgcagtctgc cagcagtcgg actacgtacc ccggtacgtg cgctacacgc 60  
 255 agctttt 66  
 258 <210> SEQ ID NO: 19  
 259 <211> LENGTH: 88  
 260 <212> TYPE: DNA  
 261 <213> ORGANISM: Artificial sequence  
 263 <220> FEATURE:  
 264 <223> OTHER INFORMATION: Primer for in-situ amplification  
 266 <400> SEQUENCE: 19  
 267 gcagcagtagc gactagcata tccgacctgc gtgtagcgca cgtaccgggg tacgtagtcc 60  
 269 gactgctggc agcatgcaga tgagccga 88  
 272 <210> SEQ ID NO: 20  
 273 <211> LENGTH: 94  
 274 <212> TYPE: DNA  
 275 <213> ORGANISM: Artificial sequence  
 277 <220> FEATURE:  
 278 <223> OTHER INFORMATION: Primer for in-situ hybridization  
 280 <400> SEQUENCE: 20  
 281 cgatagcagt agcatgcagg tccgaccagc agtcggacta cgtaccccggt tacgtgcgct 60  
 283 acacgcaggt cggatatgct agtcgtactg ctgc 94  
 286 <210> SEQ ID NO: 21  
 287 <211> LENGTH: 94  
 288 <212> TYPE: DNA  
 289 <213> ORGANISM: Artificial sequence

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Input Set : A:\Seq Listing.ST25.txt

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291 <220> FEATURE:
292 <223> OTHER INFORMATION: Primer for in-situ hybridization
294 <400> SEQUENCE: 21
295 gcagcagtagc gactagcata tccgacctgc gtgtagcgca cgtaccgggg tacgtagtcc 60
297 gactgctggt cggacctgca tgctactgct atcg 94
300 <210> SEQ ID NO: 22
301 <211> LENGTH: 22
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Amplification primer
308 <220> FEATURE:
309 <221> NAME/KEY: misc_feature
310 <222> LOCATION: (7)..(19)
311 <223> OTHER INFORMATION: n can be g, a, t, or c
314 <220> FEATURE:
315 <221> NAME/KEY: misc_feature
316 <222> LOCATION: (7)..(19)
317 <223> OTHER INFORMATION: n can be g, a, t, or c
320 <400> SEQUENCE: 22
W-321 gtgcagnnnn nnnnnnnnnnt ta 22
324 <210> SEQ ID NO: 23
325 <211> LENGTH: 22
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Amplification primer
332 <220> FEATURE:
333 <221> NAME/KEY: misc_feature
334 <222> LOCATION: (7)..(19)
335 <223> OTHER INFORMATION: n can be g, a, t, or c
338 <400> SEQUENCE: 23
W-339 gtgcagnnnn nnnnnnnnnnc ta 22
342 <210> SEQ ID NO: 24
343 <211> LENGTH: 22
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Amplification primer
350 <220> FEATURE:
351 <221> NAME/KEY: misc_feature
352 <222> LOCATION: (7)..(19)
353 <223> OTHER INFORMATION: n can be g, a, t, or c
356 <400> SEQUENCE: 24
W-357 gtgcagnnnn nnnnnnnnnnt ca 22
360 <210> SEQ ID NO: 25
361 <211> LENGTH: 34
362 <212> TYPE: DNA
363 <213> ORGANISM: Artificial sequence

```

→ The n or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 02/11/2002

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Input Set : A:\Seq Listing.ST25.txt

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L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28